

Application number: 09/893,952
Application filed: 2001 June 28
Applicant: Charles Vann
Title: Orientation and Position Sensor
Examiner: Hien X. Vo
Date: July 21, 2003

Supplemental Amendment

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to Office communication mailed July 10, 2003, please amend *claims 9-13*
~~the above application as follows: Cancel claims 4-7. Add new claims 8-13 as follows.~~

8. [new] A position and orientation sensor, comprising:

an alignment target having a first optical feature a fixed distance from
a second optical feature;

an imaging device that can form an optical image of said alignment
target with said first feature in focus and said second feature out
of focus;

whereby the location and size of said first feature compared to the
location and size of said second feature in said optical image are
measurements of up to three orthogonal positions and up to three
orthogonal orientations of said alignment target with respect to said imaging
device.